Page 1

Work Order ID 71462

M	lond	lay,	July	04,	2011	1:31:	10 PM

Item ID:

D3391-023

Accept



Setup Start



Revision ID:

Item Name:

Required Date: 7/19/2011

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: MF

Revision Nbr

Date: 11-07-04

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Stop

Stop

Sequence ID/ **Work Center ID** Operation

Set Up/

Tool ID

Tool # Plan

Accept

Reject

Reject

Stamp

Description

Run Hours

Code

Qty

Otv

Number

Insp.

Draw Nbr

D3391 Rev H

100

Skidtubes

Skidtubes

Skidtubes

0.00

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

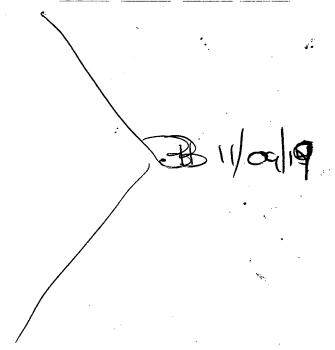
7-Deburr

Memo

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391



Dart	Aer	osp	ace	Ltd
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W/O:			WO	RK ORDER CHANG	ES		·		*
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector

Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A:	Date: _	
	Res	solution:	Disposition):	QA: N/C CI	osed:		Date: _	
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DATE	STEP	Description of NC			tion B Sign 8		cation	Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng		Sect	ion C	Chief Eng	QC Inspector
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Work Order ID 71462	Work	Order ID	71462
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Page 2

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name: Mid Tube Assembly

Required Date: 7/19/2011

Start Date:

7/5/2011

QC:

Start Qty: 1.00

Req'd Qty: 1.00



Date:

Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling: SPC (Y/N):

Date: Date: Run

Start

Stop

Sequence ID/ **Work Center ID**

Operation **Description**

Set Up/ **Run Hours** Tool ID

Tool # Plan

Accept Oty

Reject **Qty**

Reject Number

Insp. Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly transfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wear plate holes into D3391-021 using DT8217, locating from two previously drilled hales drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using D78937

16- Open 2 fwd wearplate holes in D3391 023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia

19-Deburr and blow out all chips from inside tube

Drill foles detail 5 Poge 2+6 as portug D 339,

Code

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W/O:			W	ORK ORDER CHANG	iES .		_		•
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Page 3

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

7/5/2011

Start Oty: 1.00

Reg'd Oty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Date: _____

Tooling:

SPC (Y/N):

Date: Date:

Start

Stop



QC:

Required Date: 7/19/2011

Sequence ID/ Work Center ID

110

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Run

Reject Number

Insp. Stamp

Memo

8 ululos

120

HandFinish

Hand Finishing

Chemical Conversion Coat per OSI005 4.1

0.00

0.00

0.00

0.00

Memo

130

Quality Control

QC3- Inspect Part Finish

Memo

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	Resc	olution:	Dispositi	ion:	QA	: N/C Cld	sed:		Date: _	
NCR:			WORK ORI	DER NON-CONFOI	RMANCE	(NCR)			
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Page 4

Item ID:

D3391-023

Accept



Setup Start



Revision ID:

Item Name: Mid Tube Assembly

Required Date: 7/19/2011

Start Date:

7/5/2011

Start Qty: 1.00

Req'd Oty: 1.00



Cust Item ID: Customer:

Reference:

Ap	prova	ls:
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Process Plan:

Date:

Tooling:

Run

Start

Stop



Date:

SPC (Y/N):

Date:

Date:

Stop

Sequence ID/ Work Center ID

140

Skidtubes

Skidtubes

Operation Description

Set Up/ **Run Hours**

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Skidtubes

Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours)

A/R Sikaflex exp: 12-8-13 batch#: M119 39

0.00

150

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

160

Skidtubes Skidtubes

Skidtubes

0.00

0.00

Memo

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

AR m118735

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W/O:			W	ORK ORDER CHANGE	ES				•
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	R	esolution:	Disposition	on:	QA: N/C Clo	sed:	······································	_ Date: _	
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCR)			
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Page 5

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Required Date: 7/19/2011

Req'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan: _____

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Stop



Sequence ID/

Work Center ID

170

180

Quality Control

Operation Description

QC:

QC10- Inspect visual per QS1004- ground welds

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

0.00

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Memo

0.00

QC

Quality Control

Memo

185

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

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W/O:			W	ORK ORDER CHANG	ES				•
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Page 6

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Required Date: 7/19/2011 Req'd Qty: 1.00

Operation

Description

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Tool # Plan

Code

Run

Start



QC:

Date: _____

SPC (Y/N):

Set Up/

0.00

Run Hours

Date:

Stop

Sequence ID/

Work Center ID

190

200

FINISH TIME:

START TIME: OVEN TEMPERATURE

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

QC3- Inspect Part Finish

Memo

0.00

0.00

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

BR 11-11-14.

Quality Control

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W/O:			WO	RK ORDER CHANG	ES				•
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Page 7

Item ID:

D3391-023

Accept



Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 7/19/2011

7/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

Approvals:	Α	pp	rov	als:
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Process Plan:

Date:

Tooling:

0.00

0.00

Date:

Date:

Run

Start

Reject

Qty

Stop



Sequence ID/

Work Center ID

QC:

Date:

SPC (Y/N):

Set Up/

Run Hours

Tool ID

Tool # Plan

Code

Accept Qty

Reject Number

Insp. Stamp

210

Skidtubes

POLIT Y

Skidtubes

Skidtubes

Operation

Description

Memo

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500". per DSI 9364

4- remove T-pins and locate DT9415 from first and third crossbolt hole using T-

5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to \$0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

220

QC5- Inspect part completeness to step on W/O

0.96

QC

Memo

0.00

Quality Control

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W/O:			WC	ORK ORDER CHANGE	ES				•		
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Page 8

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Mid Tube Assembly Item Name:

Start Date:

7/5/2011

Start Qty: 1.00

Required Date: 7/19/2011 Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date: _____

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID

230

HandFinish

Hand Finishing

Operation Description

HandFinishing

Memo

Install Inserts as per Dwg

Set Up/ **Run Hours**

0.00

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

240

Memo

QC5- Inspect part completeness to step on W/O

Quality Control

250

Packaging

Packaging

Identify as per dwg & Stock Location:

Memo

0.00

ShIP

0.00

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WORK ORDER CHANGES										
Approval Chief Eng / Prod Mgr Appro QC Inspe	Qty Chief Eng									
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Page 9

Item ID:

D3391-023

Accept



Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Req'd Qty: 1.00

Operation

Description



Cust Item ID:

Customer:

Tool ID

Reference:

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Process Plan:

Date: _____

Tooling:

Date:

Run

Accept

Qty

Start

Stop



QC:

Required Date: 7/19/2011

Date:

SPC (Y/N):

Date:

Tool # Plan

Code

Sequence ID/

Work Center ID

260

QC21- Final Inspection - Work Order Release

Set Up/ **Run Hours**

0.00

Reject Qty

Reject Number

Insp. Stamp

Quality Control

Memo

0.00

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W/O:			WORK ORDER CHANGES									
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Picklist Print

Monday, July 04, 2011 1:31:07 PM

Work Order ID: 71462

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 7/5/2011

Required Date: 7/19/2011

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

KJ/EC□ $EC\square$

IPP C 07.03.20 rev F dwg

EC

IPP D 07.03.28 re-format

EC

EC

IPP E 07.10.31 ecn 1053P

IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP

Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
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D3389-1 		Manufactured	No		7343	140 3	Each	1.0000		1	N))-//-
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Required Date: 7/19/2011

Required Qty: 1.00

Monday, July 04, 2011 1:31:07 PM

Work Order ID: 71462

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Spacer

Bushing

ALS4-1032-130

Purchased Insert

ALS-7-1032-130.

D 4695-045.

HW3C-4A.

NAS 1149 CO332R

Manufactured

Manufactured

No

No

No

Location

LG

160

Each

Each

9.0000

Loc Qty 2 7

210

Loc Code

27.0000

Start Date: 7/5/2011

5

Start Qty: 1.00

Location ST068

57350

66147

68958

69893

230

Loc Qty

25 Each

2

994

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Loc Code

20

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ST281 117331 ST282 994

117717

119530.

76560.

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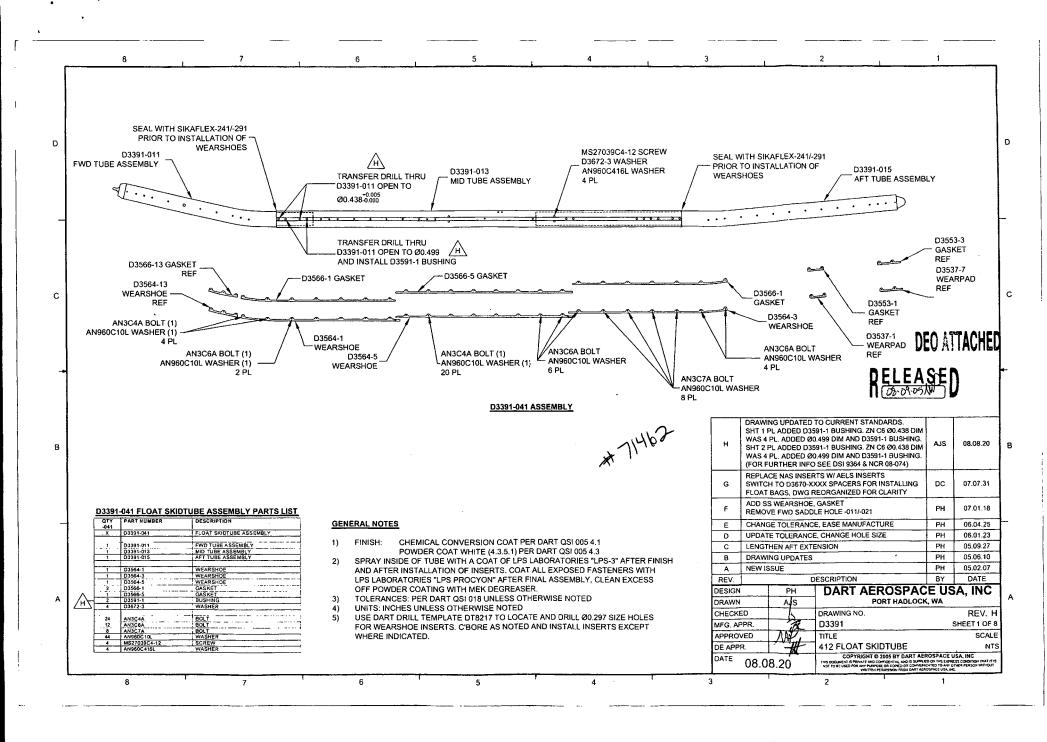
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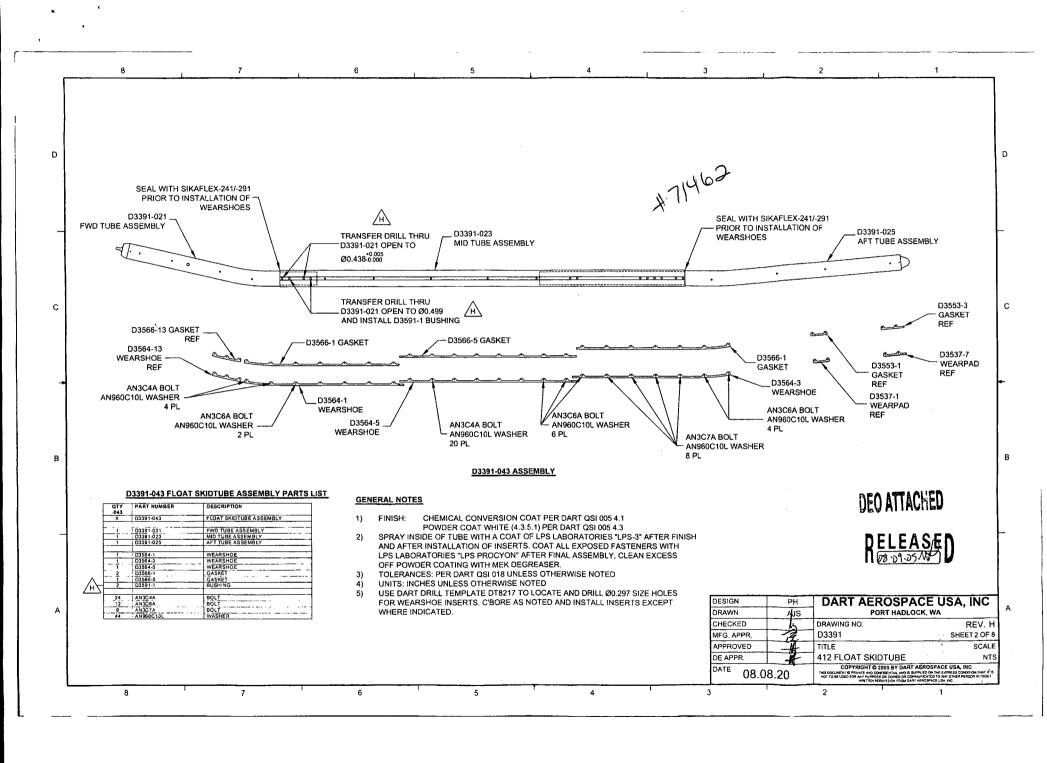
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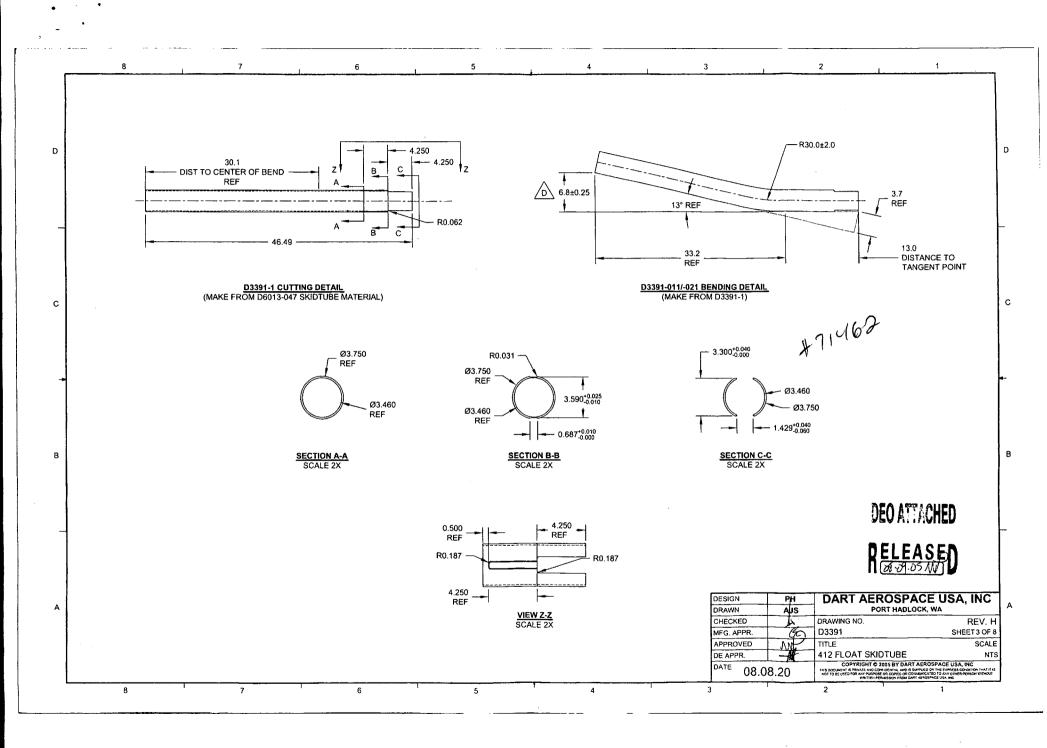


													
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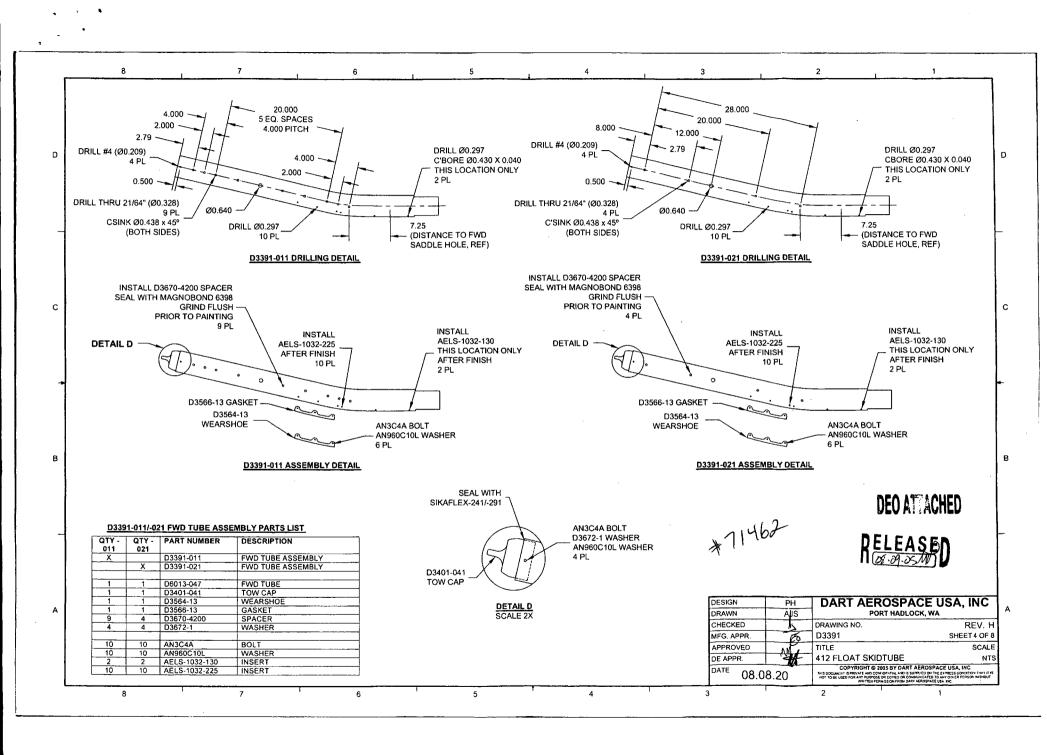
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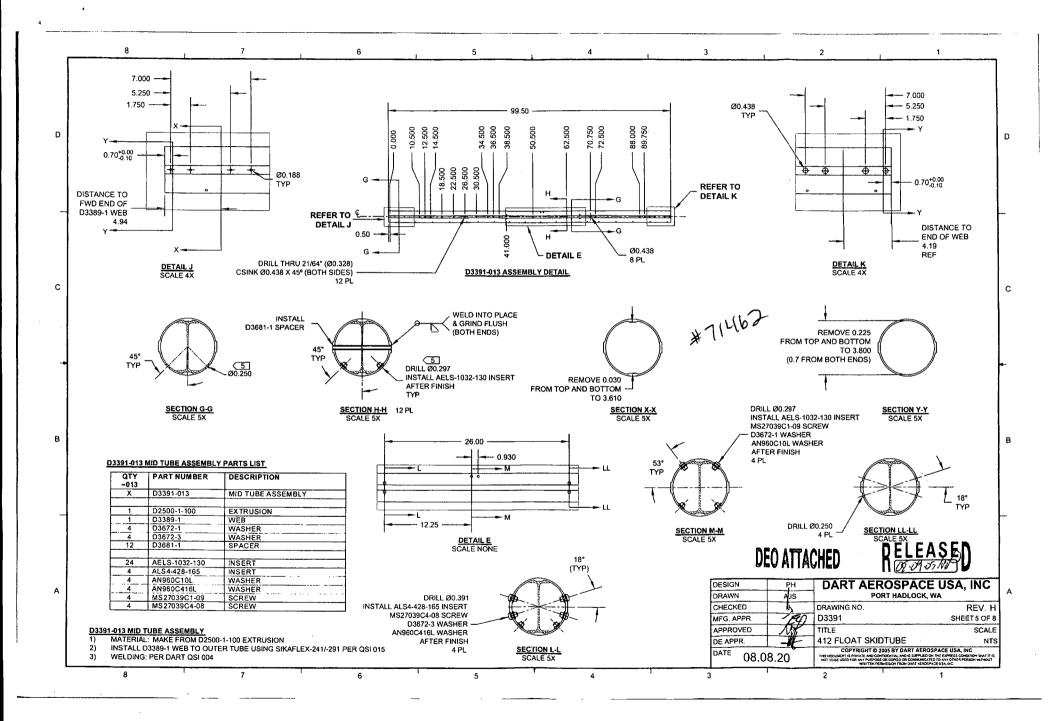
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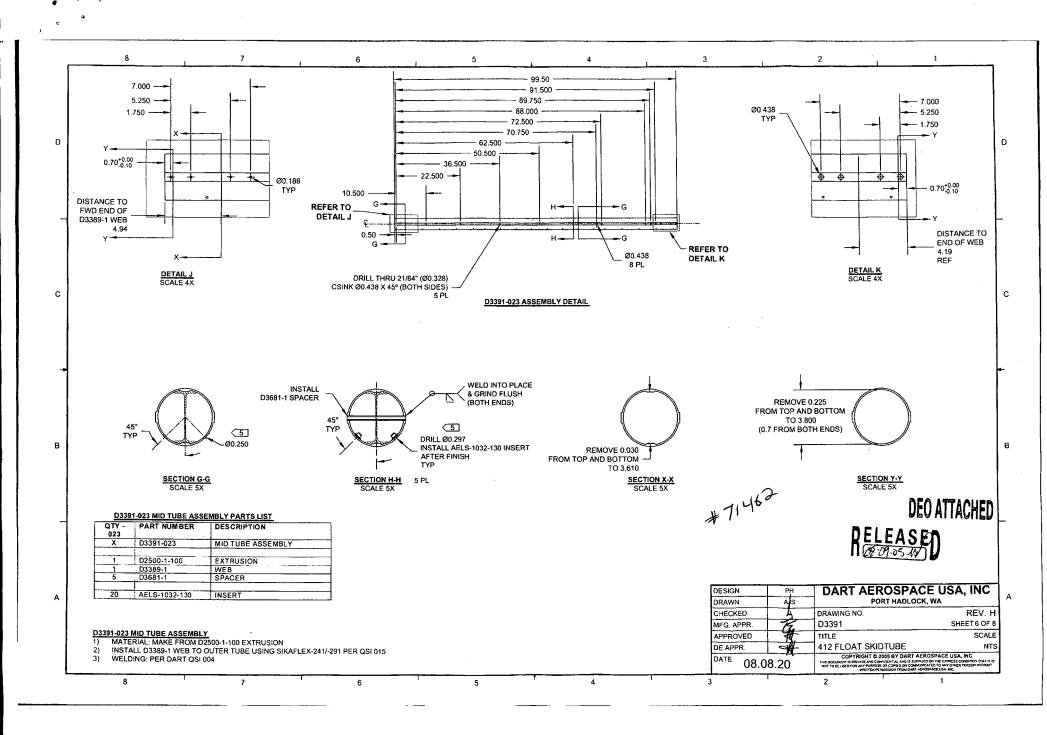
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DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
		PAR #:	Fault Cat	egory:	_ NCR: Yes	No DQ	A:	Date: _				
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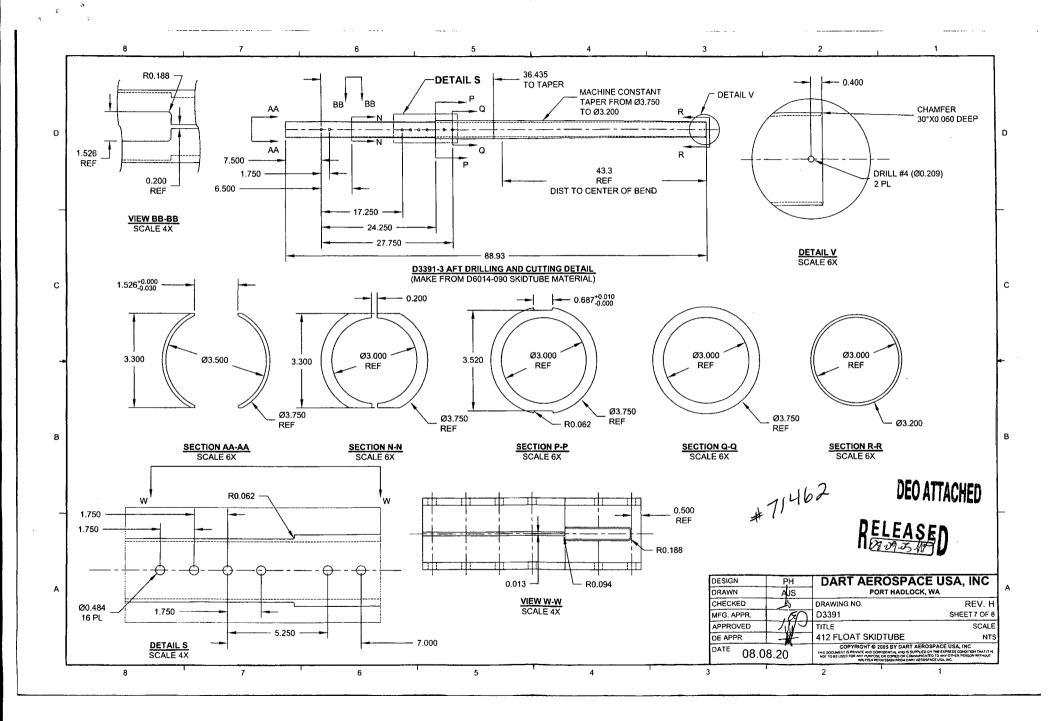


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DATE	STEP	Description of NC	B 2a2 - 6		ction B		Verific		Approval	Approval			
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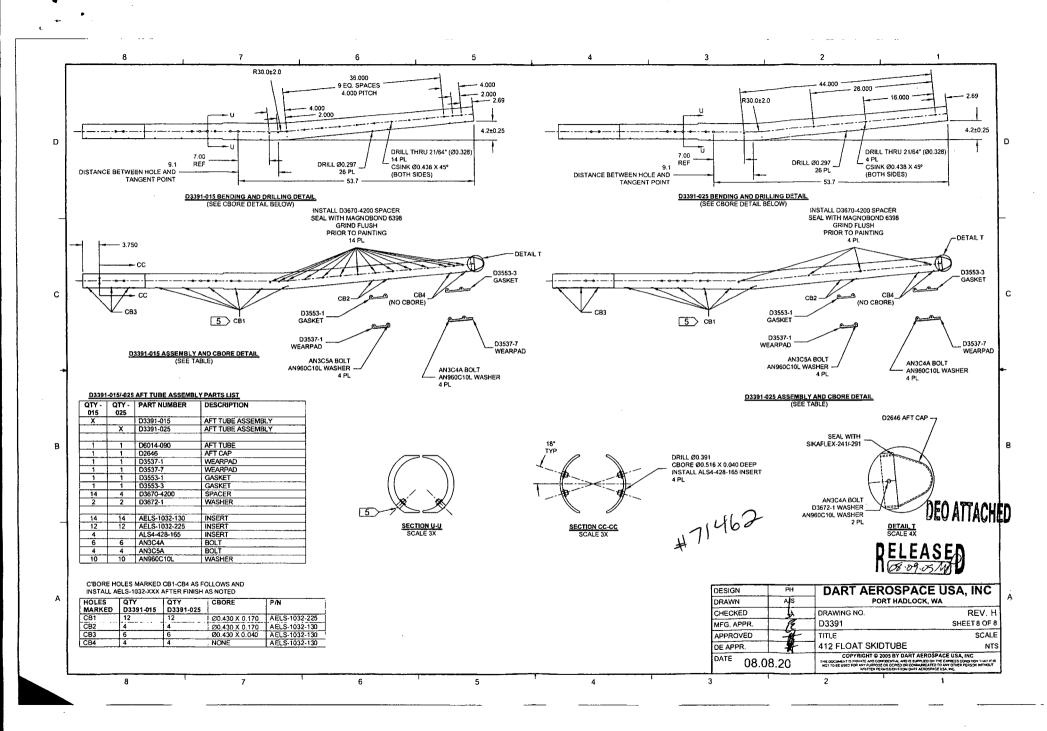


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DATE	STEP	Description of NC		Corrective Action Section B			erification	ation Approval	Approval
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	STEP Section A		Initial Chief Eng	Action Description Chief Eng	Sign Date			Chief Eng	QC Inspector
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DRAWING	NO.	TITLE		REV. H	DART A	EROSPACE	USA, INC D.E.O	. NO.		SHEE	T NO.		SCALE
D3391		412 FLOAT	SKIDTUBE	1	ENGI	NEERING O	RDER D339	91-H-1		SHEET	1 OF, 1		NTS
DRAWN	Ú.)	CHECKED	ly.	MFG. AP	PR.	APPROVE	D MAD	ום	E APPR.	- #>	4	
DATE	09.09.	.23	DATE	04.04.24	DATE	09/09/25	DATE	09/09/30) 0.	ATE	09/09	130	

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT-OF LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

DELEASED 2010 -02- 0 2

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Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

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		Description of NC Corrective Action Section B			Verification	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector
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NO. 264

AWS D17.1.2001 QUALIFICATION TEST RECORD

2 1 5/11
Name: Darclay ///off
Job number: 73035
Part number: 3391 - 023
Description: MIX Tuke
Welding Process: Aig[Vi Mig[]
Base materiel: Clemikeem
Current: AC[X] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[fail[] pass[fail[]	
<u>UNACCEPTABLE</u>		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[v] fail[] pass[v] fail[] pass[v] fail[] pass[v] fail[] pass[v] fail[] pass[v] fail[]	
Qualifier fort seems Welder Archay Eduots	Date of Test Coupon // 08.3/ Date of Test Coupon //-08:3/	-

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

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DATE	STEP	Description of NC					Approval	Approval		
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